

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	12	("5350410" "5411533" "5431639" "5674254" "5713933" "5735883").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/22 12:24
S2	2	("5766230").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/22 12:24
S3	47	("3920024"   "4250884"   "4291699"   "4374382"   "4476868"   "4485813"   "4535774"   "4556063"   "4702253"   "4708142"   "4721110"   "4858610"   "4884576"   "5003976"   "5052388"   "5127404"   "5190035"   "5265603"   "5271395"   "5320643"   "5336244"   "5342406"   "5391191"   "5405365"   "5411533"   "5447525").PN. OR ("5713933").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:26
S4	7	czygan-gerald.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:29
S5	0	("2004/0147983").URPN.	USPAT	OR	ON	2006/05/22 12:27
S6	110	("607"/\$.cccls.) and (("short circuit" or "short-circuit") with switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:33
S7	14	("607"/\$.cccls.) and (("short circuit" or "short-circuit") near switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:31
S8	143	("607"/\$.cccls.) and (discharg\$4 near switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:31
S9	886	("607"/\$.cccls.) and (discharg\$4 with switch).	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:44
S10	172	(S6 or S7 or S8 or S9) and capture	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:36
S11	52	(S6 or S7 or S8 or S9) and ((detect\$4 or succesful or succesfull) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:33
S12	82	("607"/\$.cccls.) and "helmholtz"	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:35

## EAST Search History

S13	7	S12 and ((detect\$4 or succesful or succesfull) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:40
S14	551	("607"/\$.ccls.) and (capacitance with electrode)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 13:09
S15	28	S14 and ((detect\$4 or succesful or succesfull) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:35
S16	619	("607"/\$.ccls.) and "coupling capacitor"	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:39
S17	93	S16 and ((detect\$4 or succesful or succesfull) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 13:09
S18	20	(S6 or S7 or S8 or S9) and S17	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 12:40
S19	31	("607"/\$.ccls.) and (reservoir with capacitor)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:41
S20	2	S19 and ((detect\$4 or succesful or succesfull) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:43
S21	54	(607/13).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/22 15:41
S22	729	("607"/\$.ccls.) and ((detect\$4 or successful\$) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:46
S23	307	S22 and (discharg\$4 or dump\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:45
S24	19	S23 and (voltage with time with impedance)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:47
S25	181	S23 and (voltage with time)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:47
S26	168	S23 and ((voltage or impedance or time or current) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:48
S27	114	S23 and ((voltage or impedance or current) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:48

## EAST Search History

S28	79	S23 and ((voltage or impedance) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 15:48
S29	27	S23 and (impedance with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:42
S30	2	("5197467").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/22 17:42
S31	68	("4140132"   "4428378"   "4535774"   "4567892"   "4692719"   "4702253"   "4721110"   "4860751"   "4901725"   "4919136"   "4926863"   "5003976"   "5063937").PN. OR ("5197467").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:42
S32	21	("4140132"   "4373531"   "4537201"   "4686987"   "4688573"   "4858610"   "4901725"   "4979507"   "5154171"   "5197467"   "5201808"   "5413592"   "5476487"   "5507785"   "5531772").PN. OR ("5735883").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:45
S33	47	("3920024"   "4250884"   "4291699"   "4374382"   "4476868"   "4485813"   "4535774"   "4556063"   "4702253"   "4708142"   "4721110"   "4858610"   "4884576"   "5003976"   "5052388"   "5127404"   "5190035"   "5265603"   "5271395"   "5320643"   "5336244"   "5342406"   "5391191"   "5405365"   "5411533"   "5447525").PN. OR ("5713933").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:45
S34	124	S31 or S32 or S33	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:45
S35	39	S34 and (discharg\$4 or dump\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:45
S36	8	S35 and ((detect\$4 or successful\$) with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 17:49
S37	2	("5531772").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/22 17:49
S38	16	("4686897"   "4901725"   "5137019"   "5154171"   "5197467"   "5201808").PN. OR ("5531772").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:33

## EAST Search History

S39	2	("6975905").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/22 18:33
S40	12	("4096866"   "5111816"   "5411533"   "5591211"   "5735880"   "5846264"   "5948004"   "6002962"   "6169921"   "6238419"   "6456877"   "6615089"). PN. OR ("6975905").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:33
S41	110	("607"/\$.ccls.) and (("short circuit" or "short-circuit") with switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:36
S42	14	("607"/\$.ccls.) and (("short circuit" or "short-circuit") near switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:36
S43	143	("607"/\$.ccls.) and (discharg\$4 near switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:36
S44	886	("607"/\$.ccls.) and (discharg\$4 with switch)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:36
S45	14	(S41 or S42 or S43 or S44) and (capture with (discharg\$4 or dump\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:41
S46	590	(S41 or S42 or S43 or S44) and (voltage with (discharg\$4 or dump\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:39
S47	79	(S41 or S42 or S43 or S44) and (capture with (voltage or time or impedance))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:40
S48	814	(607/27-28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/22 18:50
S49	14	S48 and (capture with (discharg\$4 or dump\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:44
S50	63	("3477421"   "3498288"   "3593718"   "3648708"   "3669120"   "3769986"   "3830242"   "3835865"   "3871383"). PN. OR ("4114627").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:42
S51	13	S48 and (break\$5 with voltage)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:44

## EAST Search History

S52	177	S48 and (impedance with voltage)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:45
S53	90	S52 and (discharg\$4 or dump\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:46
S54	41	S52 and (impedance with capture)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:45
S55	2	("5,713,933").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/05/22 18:45
S56	22	S54 and (discharg\$4 or dump\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:46
S57	21	("4140132"   "4373531"   "4537201"   "4686987"   "4688573"   "4858610"   "4901725"   "4979507"   "5154171"   "5197467"   "5201808"   "5413592"   "5476487"   "5507785"   "5531772"). PN. OR ("5735883").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:48
S58	45	("4140132"   "4373531"   "4537201"   "4686987"   "4688573"   "4858610"   "4901725"   "4913145"   "4979507"   "5154171"   "5201808"   "5413592"   "5443485"   "5476487"   "5507785"   "5531772").PN. OR ("5718720"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/22 18:48
S59	305	S48 and (capacitor with (charg\$4 or discharg\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/22 18:51
S60	305	S48 and (capacitor with (charg\$4 or discharg\$4 or dump\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/22 18:51
S61	27	S60 and (capture with (charg\$4 or discharg\$4 or dump\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/22 18:52
S62	355	(607/28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/16 14:09

## EAST Search History

S63	75	S62 and (capture same impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:49
S64	54	S63 and ((voltage or current) same impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:49
S65	43	S63 and ((voltage or current) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:59
S66	16	S63 and ((capacitor or capacitance) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:59
S67	2	("20030125779").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/15 13:51
S68	23	("4245643"   "4337776"   "4448196"   "4532931"   "4613850"   "4830006"   "4899750"   "4949720"   "4964407"   "5003975"   "5137021"   "5201865"   "5215081"   "5224475"   "5391186"   "5423871"   "5431692"   "5534018"   "5716381"   "5722997"   "5755742"   "5897577"   "6058325").PN. OR ("6788972").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/15 13:51
S69	17	S68 and ((capacitor or capacitance) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:53
S70	16	S65 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:57
S71	2	("20030014085").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/15 13:57

## EAST Search History

S72	52	("4140131"   "4245643"   "4337776"   "4406286"   "4476868"   "4548209"   "4595009"   "4630615"   "4899750"   "4949720"   "4958632"   "5003975").PN. OR ("5201865").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/15 13:58
S73	24	S72 and ((capacitor or capacitance) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:59
S74	38	S72 and ((voltage or current) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:02
S75	23	S73 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 13:59
S76	2	("20020123773").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/15 13:59
S77	165365	((voltage or current) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:08
S78	71947	((capacitor or capacitance) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:03
S79	16	S63 and S77 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:03
S80	132	((voltage or current) with (capacitor or capacitance)) and S62	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:06
S81	33	((voltage or current) with (capacitor or capacitance)) and S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:10

## EAST Search History

S82	27	S77 and S81	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:10
S83	96	((voltage or current) with (capacitor or capacitance)) and ("607"/\$.ccls.) and (capture same impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:12
S84	79	S77 and S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:10
S85	36	S84 and (capture with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 14:13
S86	2	("20010007056").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/15 15:15
S87	30	"helmholtz capacitance"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 15:20
S88	15	"helmholtz capacitance" with impedance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 15:16
S89	32	("4498478").URPN.	USPAT	OR	ON	2006/10/15 15:19
S90	149	((voltage with time) and (voltage with impedance)) and ("607"/\$.ccls.) and capture	USPAT	OR	ON	2006/10/15 15:20
S91	105	((voltage with time) same impedance) and ("607"/\$.ccls.) and capture	USPAT	OR	ON	2006/10/15 15:20
S92	278	(current with impedance) and ("607"/\$.ccls.) and capture	USPAT	OR	ON	2006/10/15 15:20
S93	310	S91 or S92	USPAT	OR	ON	2006/10/15 15:22
S94	9	"helmholtz" and S93	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/15 15:21

## EAST Search History

S95	80	S93 and (capture same impedance)	USPAT	OR	ON	2006/10/15 15:24
S96	16	(capture with discharg\$4) and (capture same impedance)	USPAT	OR	ON	2006/10/15 15:26
S97	277	(impedance with discharg\$4) and ("607"/\$.ccls.)	USPAT	OR	ON	2006/10/15 15:35
S98	32	S97 and ((tissue or myocardial or myocardium or cardiac or heart) adj impedance)	USPAT	OR	ON	2006/10/15 15:31
S99	36	(tissue or myocardial or myocardium or cardiac or heart) adj capacitance	USPAT	OR	ON	2006/10/17 14:11
S100	157	(impedance with ground) and ("607"/\$.ccls.)	USPAT	OR	ON	2006/10/15 15:38
S101	39	("607"/\$.ccls.) and ((monitor\$4 or measur\$ or chang\$4 or variation or varies or vary) adj discharg\$4)	USPAT	OR	ON	2006/10/17 16:12
S102	544	("607"/\$.ccls.) and (electrode with ground) and impedance	USPAT	OR	ON	2006/10/15 15:39
S103	132	("607"/\$.ccls.) and ((electrode with ground) same impedance)	USPAT	OR	ON	2006/10/15 15:40
S104	40	S103 and discharg\$4	USPAT	OR	ON	2006/10/15 15:42
S105	25	S103 and (electrode same discharg\$4)	USPAT	OR	ON	2006/10/15 15:42
S106	86	prutchi-david.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 14:10
S107	45	S106 and impedance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 14:28
S108	15	((tissue or myocardial or myocardium or cardiac or heart) adj impedance) and S106	USPAT	OR	ON	2006/10/17 14:15
S109	16	S106 and (derivative or differentiat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 14:14
S110	650	("607"/\$.ccls.) and ((derivative or differentiat\$4) same (voltage or current))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 14:17

## EAST Search History

S11 1	139	((tissue or myocardial or myocardium or cardiac or heart) with impedance) and S110	USPAT	OR	ON	2006/10/17 14:19
S11 2	92	("607"/\$.ccls.) and ((derivative or differentiat\$4) same discharg\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:08
S11 3	16	("607"/\$.ccls.) and ((derivative or differentiat\$4) with discharg\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 14:18
S11 5	17	((tissue or myocardial or myocardium or cardiac or heart) with impedance) and S112	USPAT	OR	ON	2006/10/17 16:07
S11 6	4	((tissue or myocardial or myocardium or cardiac or heart) with impedance) and S113	USPAT	OR	ON	2006/10/17 14:19
S11 7	17	S115 or S116	USPAT	OR	ON	2006/10/17 14:19
S11 8	8	S106 and impedance and ((voltage or current) adj time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 14:28
S11 9	31	S106 and impedance and ((voltage or current) with time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 14:28
S12 0	41	("5897577").URPN.	USPAT	OR	ON	2006/10/17 16:06
S12 1	14	((tissue or myocardial or myocardium or cardiac or heart) with impedance) and S120	USPAT	OR	ON	2006/10/17 16:07
S12 2	5	((tissue or myocardial or myocardium or cardiac or heart) adj impedance) and S120	USPAT	OR	ON	2006/10/17 16:09
S12 3	0	S122 and (derivative or differentiat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:08
S12 4	1	S121 and (derivative or differentiat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:08

## EAST Search History

S12 5	274	((tissue or myocardial or myocardium or cardiac or heart) adj impedance) and (derivative or differentiat\$4)	USPAT	OR	ON	2006/10/17 16:19
S12 6	20	((tissue or myocardial or myocardium or cardiac or heart) adj impedance) same (derivative or differentiat\$4)	USPAT	OR	ON	2006/10/17 16:09
S12 7	51	S125 and ((voltage or current) with (derivative or differentiat\$4))	USPAT	OR	ON	2006/10/17 16:19
S12 8	19	("607"/\$.ccls.) and S127	USPAT	OR	ON	2006/10/17 16:18
S12 9	207	("bioimpedance" or "bio-impedance" or "bio impedance")	USPAT	OR	ON	2006/10/17 16:30
S13 0	103	S129 and (derivative or differentiat\$4)	USPAT	OR	ON	2006/10/17 16:34
S13 1	24	S129 and ((voltage or current) with (derivative or differentiat\$4))	USPAT	OR	ON	2006/10/17 16:31
S13 2	1	czygan-gerald.in.	USPAT	OR	ON	2006/10/17 16:31
S13 3	12	czygan-gerald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:34
S13 4	579	("bioimpedance" or "bio-impedance" or "bio impedance")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:37
S13 5	35	S134 and ((voltage or current) with (derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:32
S13 6	11	S135 not S131	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:32
S13 7	7	S133 and impedance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:34
S13 8	5	S133 and (derivative or differentiat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:36

## EAST Search History

S13 9	4	S137 and S138	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:35
S14 0	6	("20010012953" "20020002389" "5154171").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:35
S14 1	0	S140 and (derivative or differentiat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:36
S14 2	211	(impedance same (derivative or differentiat\$4)) and ("607"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:36
S14 3	13	S134 and S142	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/17 16:37
S14 4	6	((("5405365") or ("6304781") or ("5766230"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/10/18 11:06
S14 5	4	S144 and impedance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/18 11:07
S14 6	24	("4303075"   "4527568"   "4539991"   "4554921"   "4667807"   "4686987"   "4920965"   "4951667"   "4956524"   "5246008"   "5282840"   "5330511"   "5514162"   "5571158"   "5713933"   "5735883"   "5766230"   "5766280"   "5792197"   "5824019"   "5843137"   "5871512").PN. OR ("6522924").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/16 14:07
S14 7	293	("607"/\$.ccls.) and ((increas\$4 or decreas\$4) with impedance) and capture	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/16 14:07

## EAST Search History

S14 8	119	("607"/\$.ccls.) and ((increas\$4 or decreas\$4) with impedance) and (success\$4 with (stimulation or pacing))	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/16 14:08
S14 9	363	S147 or S148	US-PGPUB; USPAT; USOCR	OR	ON	2007/03/16 14:09
S15 0	384	(607/28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/03/16 14:09
S15 1	42	S150 and S149	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/03/16 14:09
S15 2	187	(607/6).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 18:36
S15 3	180	(607/7).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 18:36
S15 4	113	(607/11).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 18:37
S15 5	230	(607/19).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 18:37
S15 6	407	(607/28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 18:37
S15 7	242	(607/62).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 18:37

## EAST Search History

S15 8	1424	(600/547).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 18:58
S15 9	352	S158 and (capture or success\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 19:06
S16 0	45	("3860009"   "3886950"   "4077413"   "4119903"   "4233659"   "4303075"   "4328808"   "4574810"   "4771781"   "4840177").PN. OR ("5111813"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/15 19:03
S16 1	579	S158 and (voltage with (change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 19:30
S16 2	260	S161 and (heart or cardiac or myocardial or myocardium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 19:08
S16 3	124	(607/8).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 19:24
S16 4	25	("4805621"   "4823797"   "4870967"   "4899750"   "5051352"   "5203344"). PN. OR ("5454377").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/15 19:16
S16 5	18	("4328808"   "4782281"   "5201865"   "5215081"   "5309917"   "5443073"   "5454377"   "5465287"   "5529072"   "5540724"   "5558671"   "5601612"   "5607455"   "5836977"   "6016445"). PN. OR ("6253103").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/15 19:17
S16 6	16	("4782281"   "5309917"   "5454377"   "5529072"   "5601612"   "5836977"). PN. OR ("6058325").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/15 19:18

## EAST Search History

S16 7	34	("20020123773"   "4245643"   "4337776"   "4448196"   "4532931"   "4613850"   "4782281"   "4830006"   "4899750"   "4949720"   "4964407"   "5003975"   "5137021"   "5201865"   "5215081"   "5224475"   "5309917"   "5391186"   "5423871"   "5431692"   "5454377"   "5529072"   "5534018"   "5601612"   "5690687"   "5716381"   "5722997"   "5755742"   "5836977"   "5897577"   "6058325"   "6393317"   "6473648"   "6564099").PN. OR ("7200441").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/15 19:19
S16 8	5	("5836977").URPN.	USPAT	OR	ON	2007/08/15 19:20
S16 9	97	S163 and ((volt or voltage or current) with (change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 19:38
S17 0	60	("2976865"   "3323367"   "3563245"   "3606881"   "3614955"   "3628538"   "3680544").PN. OR ("3815611").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/15 19:32
S17 1	302	S156 and ((volt or voltage or current) with (change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 19:40
S17 2	874	(S152 or S153 or S154 or S155 or S156 or S157) and ((volt or voltage or current) with (change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:12
S17 3	409	S172 and (impedance with (volt or voltage or current or change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 19:42
S17 4	452	S172 and (impedance with (volt or voltage or current or change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4 or tissue or cardiac or myocardial or myocardiac or myocardium or heart or cardial or cardium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:12
S17 5	398	S174 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with (volt or voltage or current))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:13

## EAST Search History

S17 6	0	("2004/0147983").URPN.	USPAT	OR	ON	2007/08/15 19:55
S17 7	2	("5,902,325").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 19:56
S17 8	3	((("6,134,473") or ("6,144,881"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 19:57
S17 9	2	("5,944,746").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 19:57
S18 0	24	("4303075"   "4527568"   "4539991"   "4554921"   "4667807"   "4686987"   "4920965"   "4951667"   "4956524"   "5246008"   "5282840"   "5330511"   "5514162"   "5571158"   "5713933"   "5735883"   "5766230"   "5766280"   "5792197"   "5824019"   "5843137"   "5871512").PN. OR ("6522924"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/15 20:08
S18 1	302	S156 and ((volt or voltage or current) with (change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:14
S18 2	167	S181 and (impedance with (volt or voltage or current or change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4 or tissue or cardiac or myocardial or myocardiac or myocardium or heart or cardial or cardium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:13
S18 3	139	S181 and (impedance with (tissue or cardiac or myocardial or myocardiac or myocardium or heart or cardinal or cardium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:24
S18 4	144	S182 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with (volt or voltage or current))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:16

## EAST Search History

S18 5	320	S156 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with (volt or voltage or current))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:22
S18 6	260	S185 and ((volt or voltage or current) with (change or drop or rise or decreas\$4 or increas\$4 or time or derivative or differentiat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:20
S18 7	143	S184 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with (tissue or cardiac or myocardial or myocardiac or myocardium or heart or cardial or cardium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:16
S18 8	98	S184 and ((volt or voltage or current) with impedance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:21
S18 9	237	S181 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with ("after" or post))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 20:23
S19 0	253	S185 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with ("after" or post))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:57
S19 1	124	S185 and ((volt or voltage or current) with ("after" or post))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:22
S19 2	407	(607/28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 22:23
S19 3	115	S192 and (impedance with (threshold or reference or compar\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:42
S19 4	94	S193 and (impedance with (tissue or cardiac or myocardial or myocardiac or myocardium or heart or cardial or cardium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:34

## EAST Search History

S19 5	55	S192 and (impedance with compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:34
S19 6	79	S192 and (impedance same compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:34
S19 7	74	S196 and (impedance with (tissue or cardiac or myocardial or myocardiac or myocardium or heart or cardial or cardium))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:34
S19 8	35	S192 and (drop with (threshold or reference or compar\$4 or limit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:45
S19 9	267	S192 and ((capture or success\$4) with (threshold or reference or compar\$4 or limit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:46
S20 0	126	S192 and ((capture or success\$4) with compar\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:46
S20 1	364	S192 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 22:57
S20 2	207	S192 and (measur\$4 with time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 23:07
S20 3	4	("4114627").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/15 23:09
S20 4	104	("607"/\$.ccls.) and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with "coupling capacitor")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 23:17

## EAST Search History

S20 5	101	S204 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4) with (voltage or current))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 23:27
S20 6	17	S192 and S205	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 23:19
S20 7	3	S192 and ((measur\$4 or monitor\$4) with "coupling capacitor")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 23:26
S20 8	36	S192 and ((detect\$4 or sens\$4 or measur\$4 or determin\$4 or monitor\$4) with capacitor) and (capacitor with ground)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 23:30
S20 9	14	S192 and (impedance with capacitor) and (capacitor with ground)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/08/15 23:32